Approved For Release 2005/06/22 CIA-ROP78T05161A000400010034-8 MAGERY ALYSIS **IVISION** PHOTOGRAPHIC INTELLIGENCE CONSTRUCTION STATUS OF SOVIET SINGLE SILO ICBM SITES **Declassification Review** by NIMA/DoD 25X1 CIA/PIR61102 25X<sup>2</sup> Mar 1966 DATE COPY 90 PAGES 30 Approved For Release 2005/06/22 : CIA-RDP78T05161A000400010034-8

Approved For Release 2005/06/22 CIA RDP78T05161A000400010034-8 MAGERY NALYSIS **IVISION** PHOTOGRAPHIC INTELLIGENCE REPORT MENSURAL DATA ON SOVIET SS-7 ICBM 25X1 CIA/PIR 61104 25X1 Mar 1966 DATE 39 COPY **PAGES** Approved For Release 2005/06/22: CIA-RDP78T05161A000400010034-8

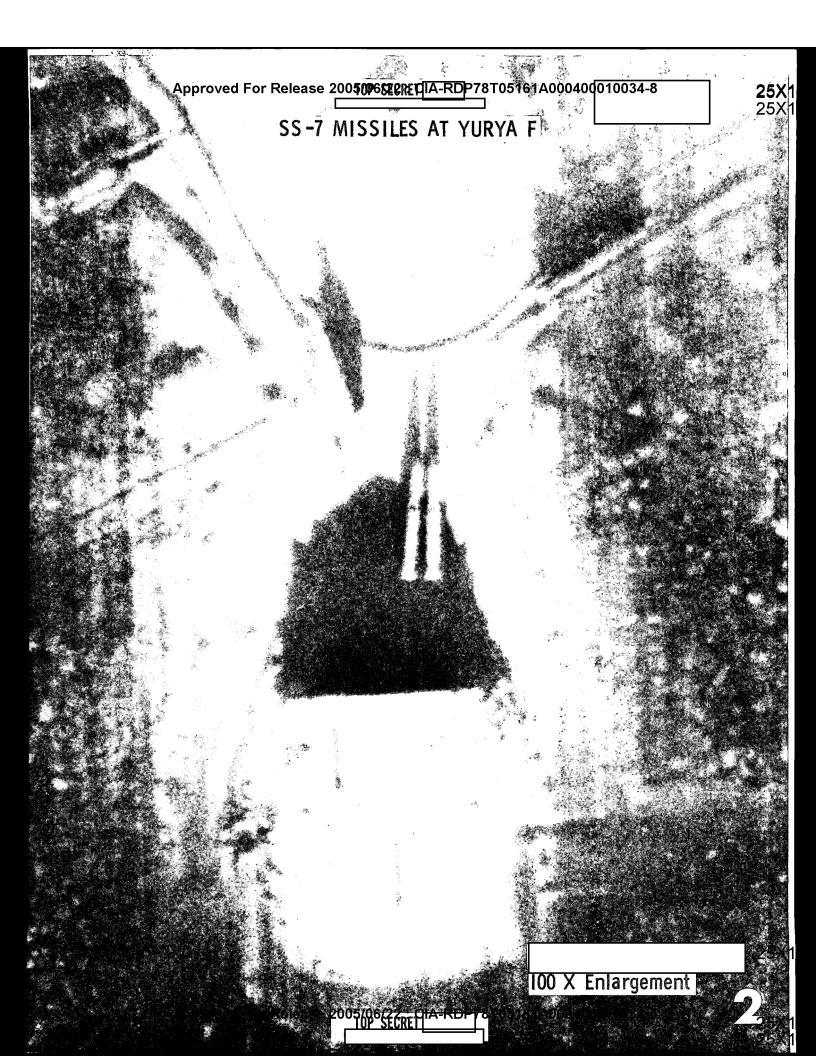
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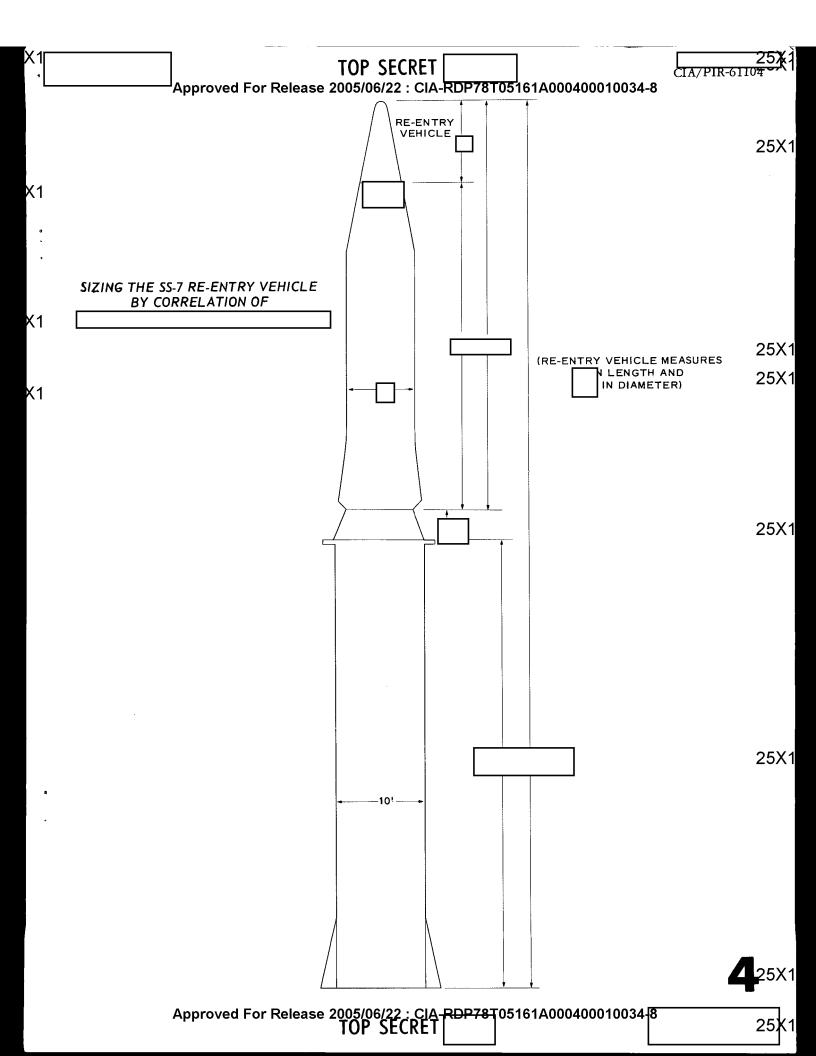
MENSURAL DATA ON SOVIET SS-7 ICBM  Excellent quality coverage obtained from revealed a number of SS-7 ICBMs at the Yurya ICBM Complex (Figures 1 and 2).  Although re-entry vehicles were not attached to these missiles at the time of photography, accurate dimensions for this system were derived by correlating mensural data from this mission with previously published ratios obtained from a Soviet released photo of an SS-7 being launched from a silo (Figure 3). The resultant mensural data is portrayed in Figure 4. All dimensions are considered to be accurate (mensuration was accomplished by Technical Intelligence Division, NPIC and correlated by the IAD imagery analyst).  REFERENCES  PHOTOGRAPHY  DOCUMENTS  "CGONEK" 20 June 1965, Number 25  CIA. PIR-61026, ICEM Silo Launch, USSR, September 1965  (TOP SECRET ICEM Silo Launch, USSR, September 1965  REQUIREMENT  C-DS6-83,346  CIA/IAD PROJECT		
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SS-7 LAUNCH PUBLISHED IN "OGONEK" 20 JUNE 1965



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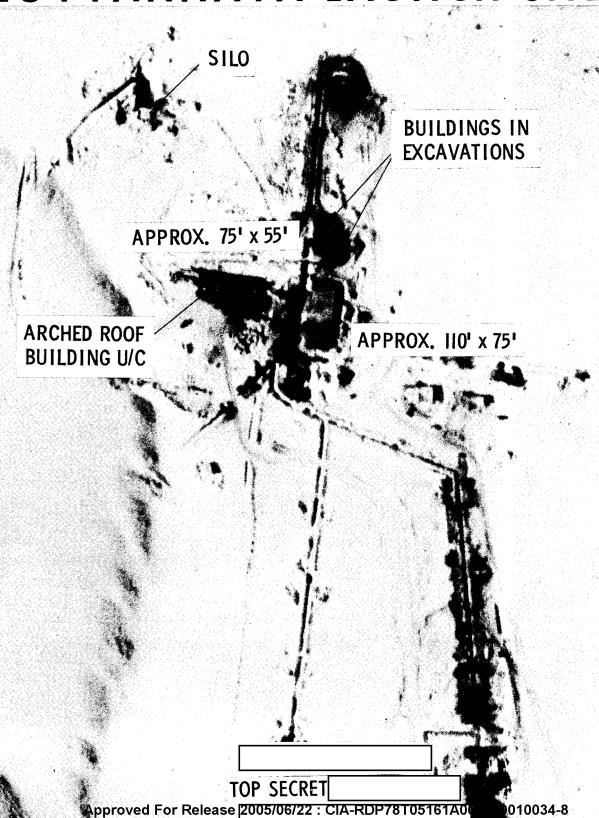
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M/EB 51/65, Construction Timing at Soviet Single Silo ICBM Sites (TOP SECRET	
CIA/PIR-61019/65, Construction Status of Single Silo ICBM Sites, USSR (TOP SECRET	
M/EB 242/65, Request for Updating of Construction Status of Soviet ICBM Sites for (TOP SECRET)	
CIA/PIR-1020/65, Construction of Soviet Single Silo ICBM Sites, USSR (TOP SECRET	
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## OLOVYANNAYA LAUNCH SITE F-1



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### TATISHCHEVO LAUNCH SITE X-1

**ADMINISTRATIVE** TYPE BUILDINGS

**BARRACKS TYPE** BUILDINGS

SILO

**BUILDING IN EXCAVATION** 

ARCHED ROOF BUILDING U/C

TOP SECRET

## DOMBAROVSKIY ICBM COMPLEX

SUSPECT ACTIVITY **NEAR TRANSFER POINT** 

TOP SECRET

## ALEYSK LAUNCH SITE D

ORIGINAL SITE ABANDONED

NEW EXCAVATION WITH IDENTICAL ORIENTATION

TOP SECRET

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CIA/PIR-61102

CIA IMAGERY ANALYSIS DIVISION

#### FIGURE 5

#### SINGLE SILO CONSTRUCTION STAGES

#### TYPE III-C

STAGE	DESCRIPTION
NEG I II III	Site construction not yet started Clearing and grading Open cut excavation Coring visible
IVa IVb	Ramps/forms under construction for silo Clearing and excavation for guidance and control
V VIa	Silo per se finished (to surface level) Backfill silo
VID VII VIII IX ID ONLY	Control and guidance under construction Silo door installed Control and guidance finished Final backfill and grading (final signature) Site can be located but construction details are not discernible

#### TYPE III-D

NEG T	Site construction not yet started Clearing and grading
II	Open cut excavation
III	Coring visible
IVa.	Ramps/forms under construction for silo
IVb	Clearing and excavation for guidance
	and control
V	Silo per se finished (to surface level)
VIa	Installation of rail-like objects
VIb	Guidance/control under construction
VII	Road pattern well-defined, environmental
	cover often visible over silo
VIII	Guidance/control completed
IX	Level access road complete, surfacing of
	road and installation of silo door
X	Site complete

Approved For Release 2005/06/22 : CIA-RDP78T05161A000400010034-8 ALEYSK ICBM COMPLEX Old New Stage of Construction Designation Designation Α 6A ID С ID 4A ID В ID 4A 4A <u>4а</u> 6а 6<u>A</u> ID ID 4A 4A C \*\*\*\* 6в 6в <u>бв</u> ID ID 6в ID ID ID ID ID 4<u>A</u> 4A ID 2 2 E 4A ID 4A 4A ID ID 4A F ID ID 4A ID ID 6<u>a</u> G ID ID N ID cont) H \*\*\*\* (prob ID 4A ID Ι Ν ID ID ID J N ID ID K\* Ν ID N - Negation ID - Identification Only C - Completed Site Launch Area A is estimated to be about  $4\frac{1}{2}$  months behind \* Probable Site Remarks: \*\* Possible Site

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\*\*\* Suspect Site

\*\*\*\* Control Site

25X

25X

2\$X

CIA/PIR-61102

schedule; B about 9 months;

and C-F about 3 months.

### Approved For Release 2005/06/22: CIA-RDP78T05161A000400010034-8 DOMBAROVSKIY ICBM COMPLEX

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25X

Old Designation	New Designation					Stag	e of C	onstru	ction		 	
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Undesignated Near T.P.***							N_	ID	ID	ID		

\* Probable Site

\*\* Possible Site \*\*\* Suspect Site

\*\*\*\* Control Site

N - Negation
ID - Identification Only
C - Completed Site

DROVYANNAYA ICBM COMPLEX

Old Designation	New Designation		· · · · · · · · · · · · · · · · · · ·		·	Stag	e of C	onstru	ction				
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\* Probable Site \*\* Possible Site

robable Site N - Nega

\*\*\* Suspect Site

N - Negation ID - Identification Only C - Completed Site

Approved For Release 2005/06/22 : CIA-RDP78T05161A000400010034-8

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TOP SECRET

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CIA/PIR-61102

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DROVYANNAYA ICBM COMPLEX

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\* Probable Site

Χ1

\*\* Possible Site

\*\*\* Suspect Site

N - Negation
ID - Identification Only
C - Completed Site

GLADKAYA ICBM COMPLEX

Old Designation	New Designation					Stag	e of C	onstru	ction		
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F-7	F <b>-</b> 6	ID	ID	ID	9	ID	ID	ID			
F-8	F-7	ID	ID	ID	9	9	ID	ID			
F <b>-</b> 9	F <b>-</b> 8	ID	ID	ID	9	9		ID			
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\* Probable Site \*\* Possible Site

\*\*\* Suspect Site

N - Negation ID - Identification Only C - Completed Site

Remarks:

25X 25X CIA/PIR-61102

## Approved For Release 2005/06/22: CIA-RDP78T05161A000400010034-8 GLADKAYA ICBM COMPLEX

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F-8	F-7	ID	ID	ID	9	9	ID	ID					
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\* Probable Site \*\* Possible Site \*\*\* Suspect Site

N - Negation ID - Identification Only C - Completed Site

Approved For Release 2005/06/22 : CIA-RDP78T05161A000400010034-8

Remarks:

CIA/PIR-61102

GLADKAYA ICBM COMPLEX

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H-4**				N	ID	ID	ID					
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н-6				N	ID	ID	ID					
H-7**				N	ID	ID	ID					
H-8***			N	ID	ID	ID	ID					
H-9***				N	ID	ID	ID					
H-10***				N	ID	ID	ID					

\* Probable Site \*\* Possible Site

\*\*\* Suspect Site

N - Negation
ID - Identification Only
C - Completed Site

25X

CIA/PIR-61102

GLADKAYA ICBM COMPLEX

Old Designation	New Designation					Stag	e of (	Constr	action	 	 
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H-8***			N	ID	ID	ID	ID				
H-9***				N	ID	ID	ID				
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\* Probable Site

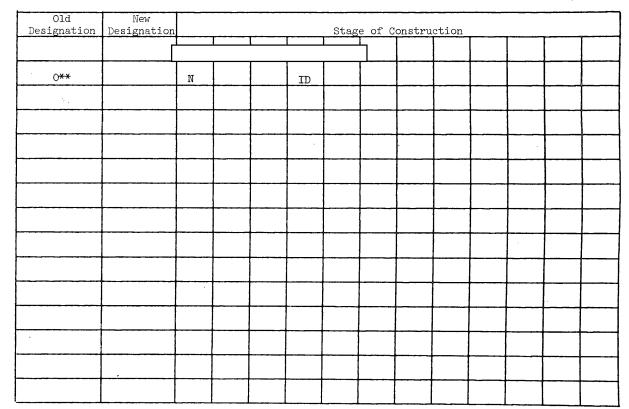
\*\* Possible Site

N - Negation
ID - Identification Only
C - Completed Site

\*\*\* Suspect Site

25X CIA/PIR-61102

IMENI GASTELLO ICBM COMPLEX



\* Probable Site

\*\* Possible Site \*\*\* Suspect Site

N - Negation
ID - Identification Only
C - Completed Site

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CIA/PIR-61102

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KARTALY ICBM COMPLEX

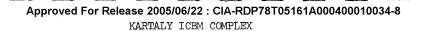
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E			ЦĄ	4A				ЦА	ID	ID	ID		ID
F			4A	4A				4 <b>A</b>		ID	ID		ID
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· I				N		1?	2?	ID	ID	ID	TD		ID
J						N	1?	ID		ID	TD		4A
K			N				1	Ð	ı	ID	TD		ID
T <del>**</del>			N	·				1	1		TD	Dro	pped
M <del>x x</del>						N		1	1	ID	LD		pped
И <del>х</del>										N	ID		ID

\* Probable Site

\*\* Possible Site

\*\*\* Suspect Site
\*\*\*\* Control Site

N - Negation
ID - Identification Only
C - Completed Site



Old Designation New Designation Stage of Construction ID O\* \* \* N ID ID

\* Probable Site \*\* Possible Site \*\*\* Suspect Site

N - Negation ID - Identification Only C - Completed Site

25X1

CIA/PIR-61102

OLOVYANNAYA ICBM COMPLEX

Old Designation	New Designation					Stag	e of C	onstru	ction	 		
		,										
D-1		ID	7_	ID	ID	ID	9	ID				
D-2		7	7	ID	9	ID	9	ID				
D <b>-</b> 3		7	7	ID	9.	ID	9	ID		 	ļ	
D <b>-</b> 4					9	9	9	ID				ļ
D <b>-</b> 5		7	7	ID	9_	ID	9	ID		<u> </u>		
D <b>-</b> 6		7	7	ID	9	ID	9	ID			<u> </u>	
D <b>-</b> 7		6в	6в	ID	9 6в	ID	9 6B	ID		<u> </u>		
D-8					9	ID	9	ID				
D <b>-</b> 9		7	ID	ID	9		9	ID		<u> </u>		
D-10		ID	7	ID	9	ID	9	ID				

\* Probable Site \*\* Possible Site \*\*\* Suspect Site

N - Negation
ID - Identification Only
C - Completed Site

Remarks: Electronics not complete. Most sites possibly complete but quality precludes identification of lid.

25X1

#### OLOVYANNAYA ICBM COMPLEX

Old Designation	New Designation			1	T	Stag	e of C	onstru	ction			 1
. E-1		5 6B	5 6в	TD	6A 6B	9 6B		9 6B		ID	9 6B	
E-2		6a	6a	ID	9	9		9		ID		
E-3		6 <b>A</b>	6 <b>A</b>	ID	9	ID		9	ID	ID	ID	
E-4		ID	ID	ID	6A	ID		9	9	ID	ID	
E-5		ID	6 <b>A</b>	ID	9	9	<u></u>	9		ID	9	
E <b>-</b> 6		6A	6 <b>A</b>	ID	6 <b>A</b>	9	ID	9		ID	9	
E-7		ID	6A.	6A	9	ID		9		ID	9	
E-8		6 <b>a</b>	6A	ID	6a	9		9		ID	9	
E <b>-</b> 9		6a	6a	ID	6A	ID		9		ID	9	
E-10		ID	4A	ID	6A	ID		ID		ID	ID	
•												
				_								

\* Probable Site
\*\* Possible Site

\*\*\* Suspect Site

N - Negation ID - Identification Only C - Completed Site

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25X1

25X1

CIA/PIR-61102

OLOVYANNAYA ICBM COMPLEX

Old Designation	New Designation				 S+20	ge of (	'on stm	ation				
Depuglication	Debignation				Duag	1	Olistic	1001011	T	T	T	T
			1		 <del> </del>	ļ		<del> </del>	ļ	<del> </del>	<del>                                     </del>	
F-1			ID	ба 6в	 <u></u>	<u> </u>						
F-2			ID	6A								
F-3			ID	5	<u> </u>	ļ	<u> </u>	ļ	ļ	<u> </u>		
F-4		5	ID	ID								
F <b>-</b> 5			ID	5_								
F <b>-</b> 6		5	TD	ID								
F-7		5 5 6B	ID									
F <b>-</b> 8		4A	TD_									
F <b>-</b> 9		5	ID	TD_								
F-10		<u>4</u> А	TD									
F-11		<u>4</u> A	_ID									

\* Probable Site

\*\* Possible Site

ID - Identification Only

\*\*\* Suspect Site

C - Completed Site

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25X1

25X1

25X1

OLOVYANNAYA ICBM COMPLEX

Old Designation	New Designation					Stage	e of Co	onstru	ction_				
	·										9		9-1
G-1		N	ID	TD	TD		5 48		Б	7 6B	6B	ID	9 6B
G <b>-2</b>				N	ID	ID	4 <u>A</u>		6A,	ID	9_	ID.	9
G <b>-3</b>		N	ID	ID	ID	ID	5		6A.	L	9_	ID	9
G-4								N	ID	4 <u>A</u>	7	ID	7
G <b>-</b> 5						N	ΙĐ	ID	ЧA	5	6A	ID	ID
G <b>-</b> 6							N	ID	ID	5	6A	ID	6A
G <b>-7</b>							N	ID	ID	5	6A	ID	7
G-8							N	ID	4A	5	6A	ID	6A
G <b>-</b> 9								N	4A	5	6A	ID	6A
G-10							N	ID	ID		6A	ID	7

\* Probable Site \*\* Possible Site

N - Negation ID - Identification Only C - Completed Site

\*\*\* Suspect Site

#### OLOVYANNAYA ICBM COMPLEX

Old Designation	New Designation					Stag	e of C	onstru	ction			
H-1		N	ID	6B	6B	ID						
H <b>-</b> 2		.,	N	5	5	ID						
H-3			N	4 <b>A</b>	:5	ID					 ļ	
H-4			N	4 <b>A</b>	4 <b>A</b>	ID						
н-6			N	4 <u>A</u>		ID-	ID					
н-7			N	5			ID					
н-8			N	4 <b>A</b>	5					<u> </u>	<u> </u>	
1,										<u> </u>		<u> </u>
											<u> </u>	

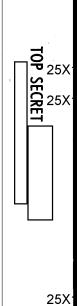
\* Probable Site

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\*\* Possible Site ID - Iden

\*\*\* Suspect Site

N - Negation
ID - Identification Only
C - Completed Site



TATISHCHEVO ICBM COMPLEX

Old Designation	New Designation					Stag	e of C	onstru	ction	1	1.	1
. A-1		ID	9 6в	6в	9 6B	ID	ID 6B	ID 6B				
A-2		ID	ID	6A	ID	ID	9	9				
A <b>-</b> 3		ID	9		9	ID	9	JTD			<u> </u>	
A-4			Dropp	ed								
A-5		ID	9		9	ID	9	9		<u> </u>		
<b>A-</b> 6		ID	7	.7	7_	_ID_	9	ID				<u> </u>
A <b>-</b> 7		ID	6A	ID	6A.	ID_	ID	9				
A-8		ID	6A	6a	9	ID	9	9				
A <b>-</b> 9		ID	6A	ID	6A	ID	9	9				
A-10		ID	6A	ID		ID	ID	_ 9				
A-11	A-4	TD	6A	TD		TD	σ					
Х		ID	4A	ID	6A 4B	ID	6Á 6B	ID	ID			
		 								 ļ		

\* Probable Site \*\* Possible Site \*\*\* Suspect Site

N - Negation
ID - Identification Only
C - Completed Site

Remarks: Launch Site X negated on

25X1

25X1

#### TYURATAM ICBM COMPLEX

Old Designation	New Designation					Stag	e of C	onstru	ction				
· I		6а 6в	7 6B		С 6в	ID	ID	C 8					
B-2		6A	7		С								
A-3		6 <b>A</b>	6a		С								
G <b>-</b> 7		4 <u>а</u> 6в	4 <b>A</b> 6в		4А 6в	4д 6в	ID	ID	ID	6A 6 <b>B</b>	9 6B	9 6B	L
K-1-K-2		4 <b>Α</b>	4 <u>A</u>	ID	4A	ID	ID	ID		6A		9	9
I <b>-</b> 2	·				<u> </u>	<u> </u>	И	1		3		3	3
I <b>-</b> 3							N	1				ID	3
B-4										N		3	3
`													
•													

\* Probable Site

Describle Cite TD - Tdent:

\*\* Possible Site

\*\*\* Suspect Site

N - Negation
ID - Identification Only
C - Completed Site

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TOP<sup>25X</sup>
SECRET

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IA/PIR-61

#### TYURATAM ICBM COMPLEX continued

Old Designation	New Designation					Stag	e of C	onstru	ction		
								·			
: L-1		9 6B	10 6в	6B							
L-2		9	10		`			<u> </u>			
L <b>-</b> 3		9		10							
L-4		ID		10							<u> </u>
L <b>-</b> 5		9	10								
L <b>-</b> 6		9	10								
L-7		9	10								
L <b>-</b> 8		ID		10							
L <b>-</b> 9		9		10							
L <b>-1</b> 0		9	10								
K-3											
G-8-69											

\* Probable Site

\*\* Possible Site \*\*\* Suspect Site

N - Negation
ID - Identification Only
C - Completed Site

Remarks:

Entire group including electronics will probably

25X1

be complete about mid-Feb.

## Approved For Release 2005/06/22 : CIA-RDP78T05161A000400010034-8 TYURATAM ICEM COMPLEX

Old Designation	New Designation				·	Stag	e of C	onstru	ction	•		
· · · · · · · · · · · · · · · · · · ·			1	1	<u> </u>		<u> </u>					
M-1		N	3	3	ID							
M-2		N	3	3	ID							
M-3		N_		3	3							
-												
									-		1	
					-,			<b></b>				_
	·										<b> </b>	_
											ļ —	
	·											
											<b></b>	

\* Probable Site

robable Site N - Negati

\*\* Possible Site

\*\*\* Suspect Site

N - Negation
ID - Identification Only
C - Completed Site

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CIA/PIR-611

UZHUR ICBM COMPLEX continued

Old Designation	New Designation					Stag	e of C	onstru	ction				· · · · · ·
									<u> </u>		<u> </u>		
· A. ·		TD_	ID	TD	6A.		С						<u> </u>
В ***		6а 6в	TD	TD	7 6в		С						
С		6A	ID	TD	6A		c-8_			<u> </u>	<u> </u>		
D		6A	ID	JD	6A		С					<u> </u>	ļ
E		6A	ID	ID	ID		С		<u> </u>				
F		ID	ID	ID	6A		С		<u> </u>		<u> </u>		
G		ID	ID_	ID	4A 4A		4A					<u> </u>	
H ****		4A	ID	ID	4а 6в		4 <b>л</b> 6в					<u> </u>	
I		ID	ID	ID	<sup>1</sup> 4А		5						
J		ID	ID	ID	4A								
K		TD	TD	TD	4A	ID							
F													
	(prob cont) L****	ID	ID 4B	ID 4B		ID							
М		ID	ID	ID	ID	ID	ID			<u> </u>			

\* Probable Site

\*\* Possible Site

\*\*\* Suspect Site
\*\*\*\* Control Site

N - Negation
ID - Identification Only
C - Completed Site

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#### Approved For Release 2005/06/22 : CIA-RDP78T05161A000400010034-8 ZHANGHIZ TOBE ICBM COMPLEX continued

Old Designation	New Designation	1	Stage of Construction											
	·	<u> </u>				<u> </u>								
. <b>V***</b>		ID			<u> </u>									
В		ID			<u> </u>									
C		ID			<u> </u>									
D		ID												
E		ID												
F		ID												
G		ID												
н		ID												
I		ID												
(prob cont) J****		ID 4B												
K		ID												

\* Probable Site \*\* Possible Site \*\*\* Suspect Site

Remarks: Launch Site K negated on Mission

N - Negation ID - Identification Only C - Completed Site